

08868972-050497

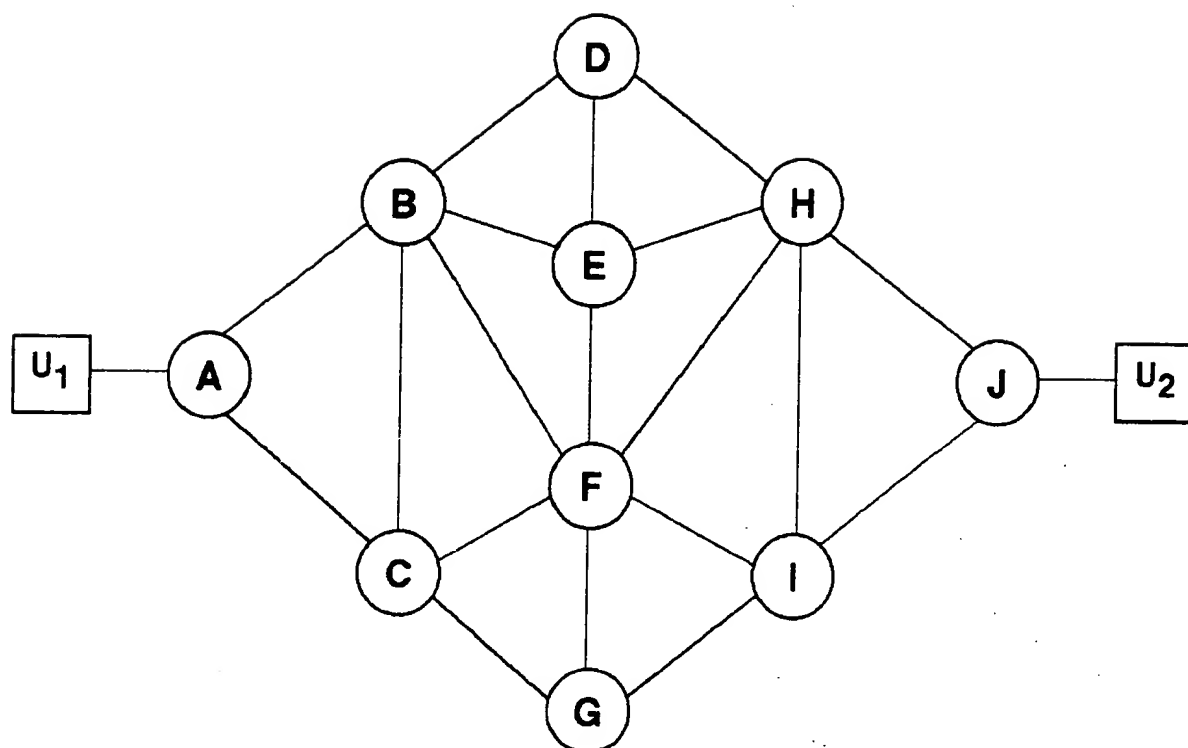


Figure 1

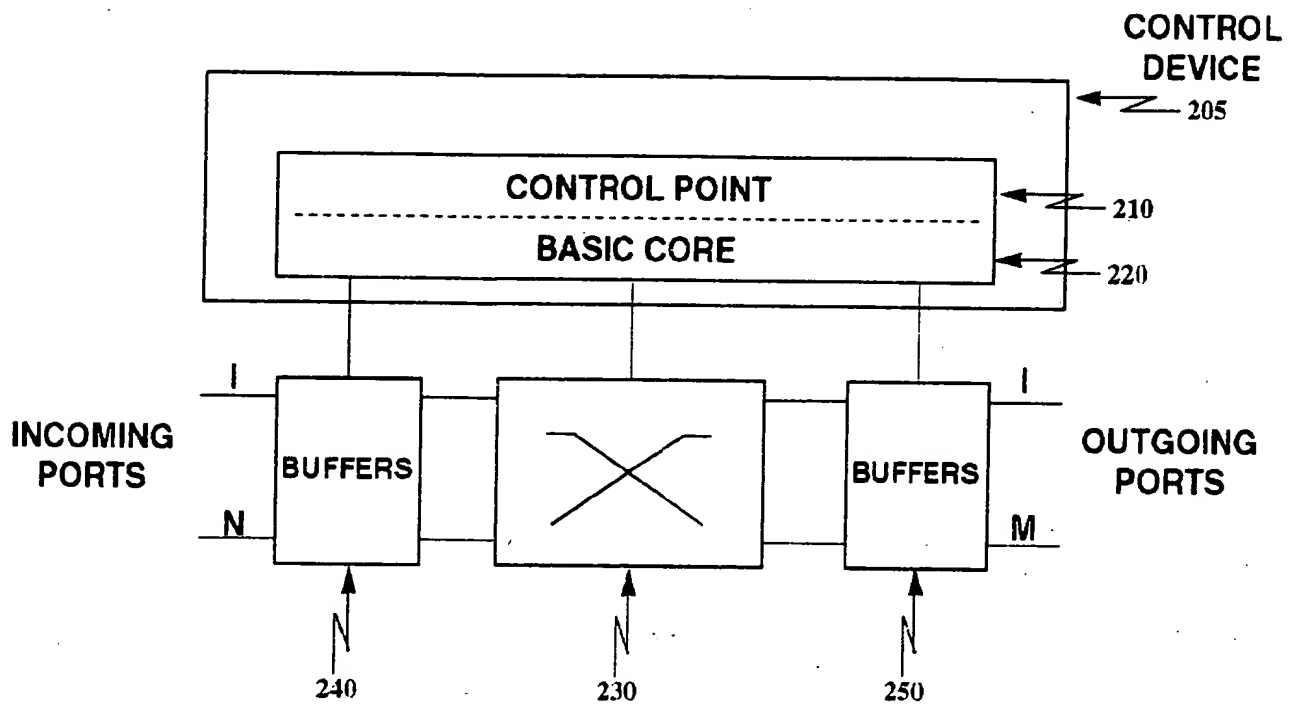


Figure 2

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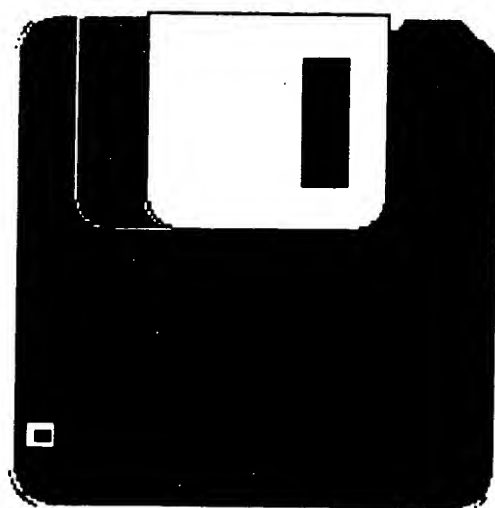


Figure 3C

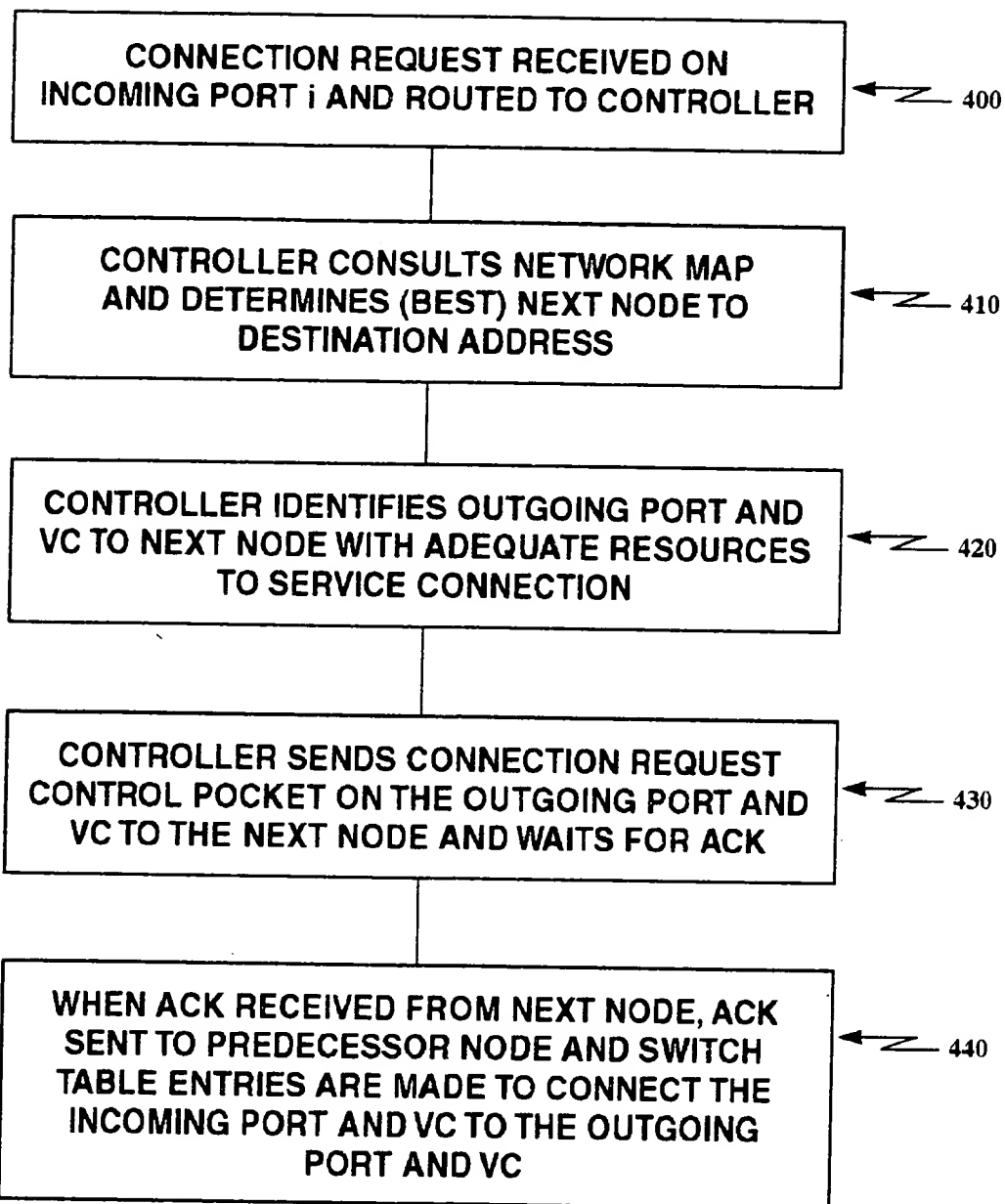


Figure 4

TIME

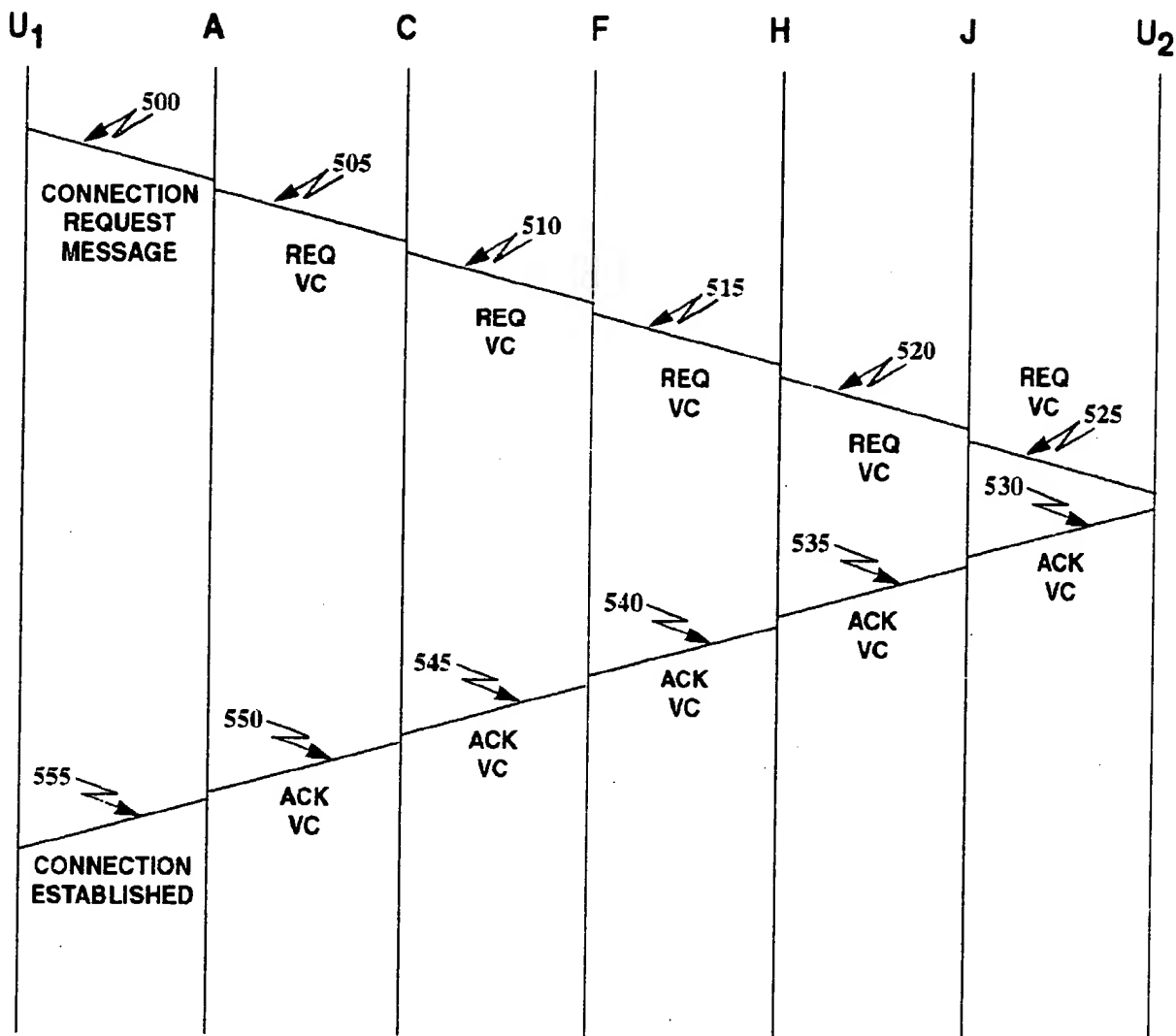


Figure 5

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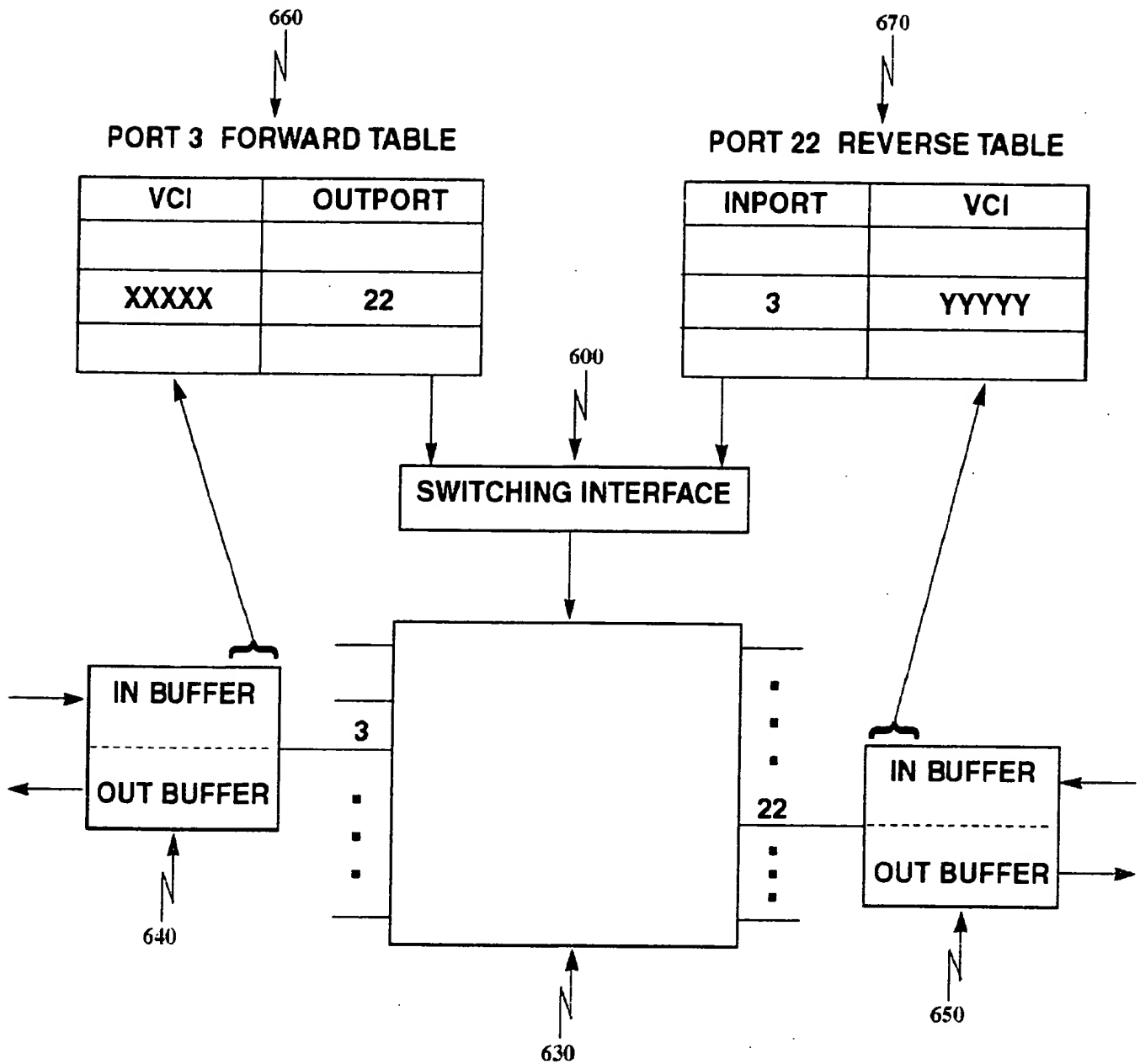


Figure 6

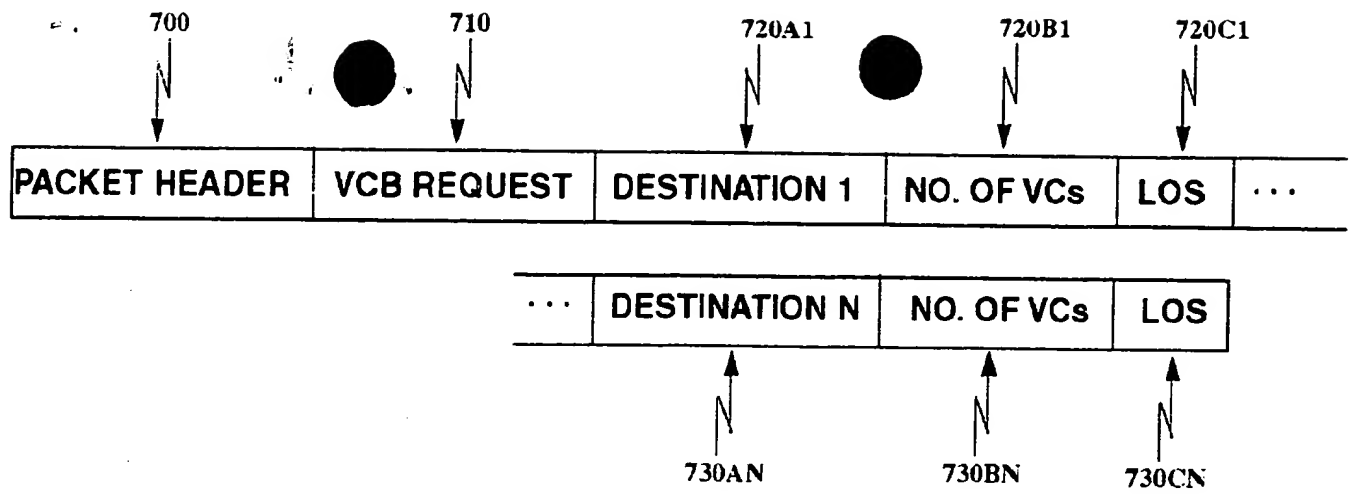


Figure 7A



Figure 7B

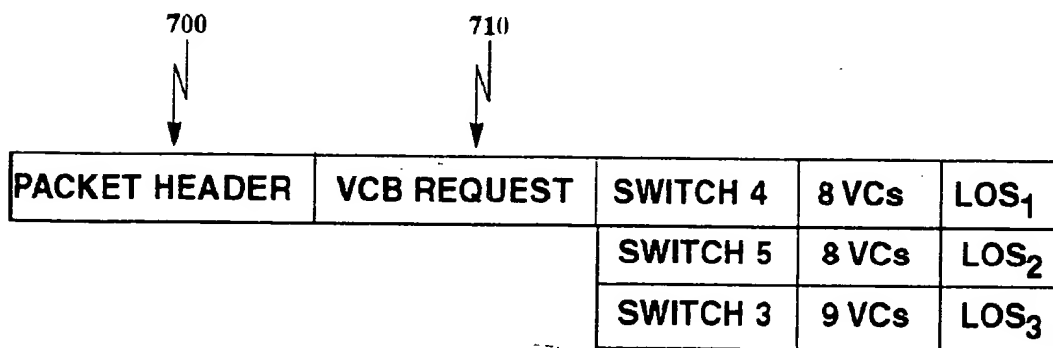


Figure 7C

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1
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PORT(VCI)	VCB	NEXT NODE VCB 3	DESTINATION NODE
	VCB 3A	SWITCH 2	SWITCH 4
	VCB 3A VCB 3B		SWITCH 4 SWITCH 5
	VCB 3B VCB 3C		SWITCH 5 SWITCH 3
	VCB 3C	SWITCH 2	SWITCH 3

Figure 8A

	PORT(VCI)	VCB	NEXT NODE VCB 3	DESTINATION NODE
1	3(102)	VCB 3A	SWITCH 2	SWITCH 4
2	3(103)			
3	3(104)			
4	3(105)			
5	3(106)			
6	3(111)			
7	3(112)			
8	3(113)	VCB 3A		SWITCH 4
9	5(103)	VCB 3B		SWITCH 5
10	5(107)			
11	5(109)			
12	5(112)			
13	5(113)			
14	5(114)			
15	5(115)			
16	5(116)	VCB 3B		SWITCH 5
17	2(101)	VCB 3C		SWITCH 3
18	2(102)			
19	2(103)			
20	2(104)			
21	2(105)			
22	6(107)			
23	6(108)			
24	6(109)			
25	6(110)	VCB 3C	SWITCH 2	SWITCH 3

Figure 8B

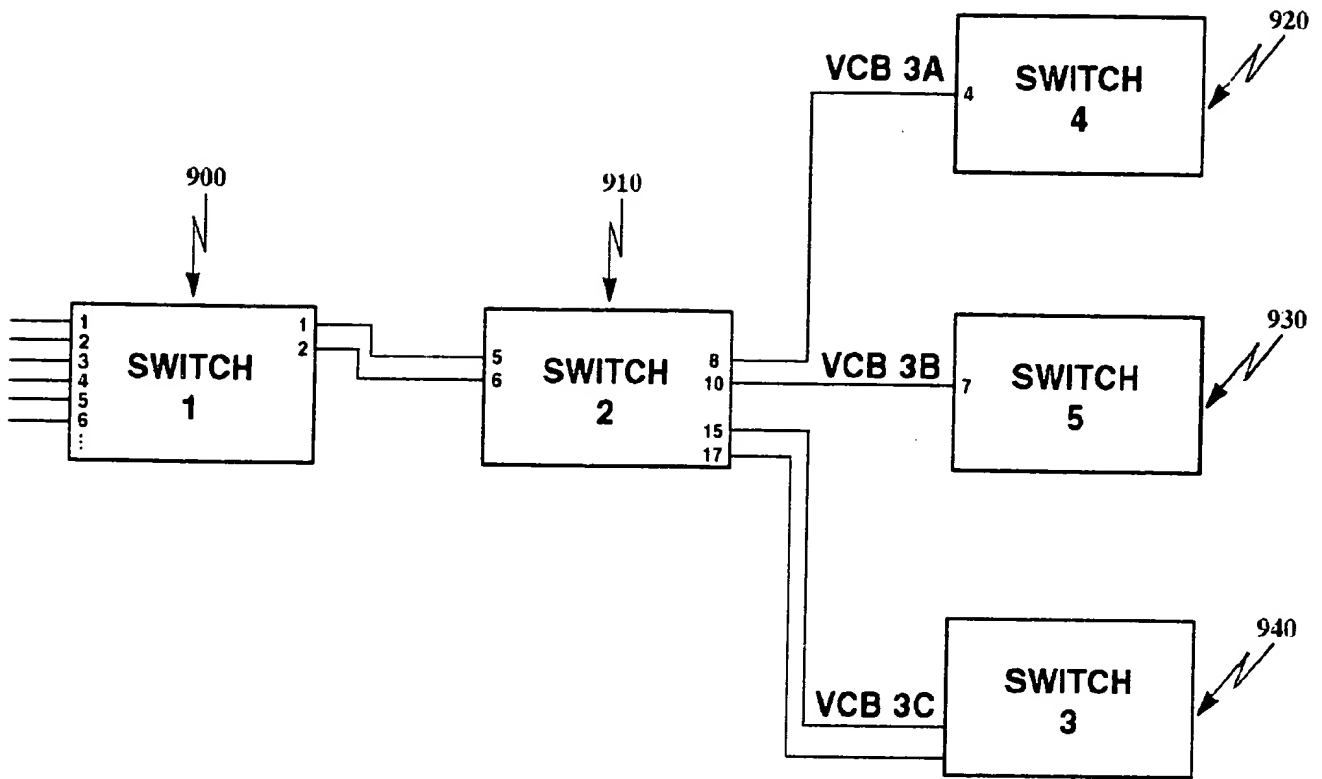


Figure 9

SWITCH 1 VCB DEFINITION TABLE

LEVEL 1	LEVEL 2	< PORT, VCI >
VCB 3	VCB 3A	PORT 5, 103-110; DESTINATION A
	VCB 3B	PORT 5, 112-114 PORT 6, 101-105; DESTINATION B
	VCB 3C	PORT 6, 107-115; DESTINATION C

1000

1010

1020

Figure 10

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SWITCH 1 CONTROLLER

FORWARD TABLE:

INPUT < PORT, VCI >	VCB	OUTPUT
3 (102-106, 111-113)	VCB 3A	ANY UNUSED
5 (103,107,109, 112-116)	VCB 3B	ANY UNUSED

REVERSE TABLE:

OUTPUT < PORT, VCI >	DESTINATION ADDRESS	VCB
3(102) 3(103) 3(104) 3(105) 3(106) 3(111) 3(112) 3(113) 5(103) 5(107) 5(109) 5(112) 5(113) . . 6(110)	DESTINATION ADDRESS ↓	VCB 3 ↓

Figure 11

FORWARD TABLE:

INPUT < PORT, VCI >	VCB	OUTPUT
5 (103-111)	VCB 3A	ANY UNUSED (e.g. 1 of 8(109-116))
5 (112-114), 6(101-105)	VCB 3B	ANY UNUSED (e.g. 1 of 10(103-111))
6 (107-115)	VCB 3C	ANY UNUSED (e.g. 1 of 15(103-106), 17(101-105))

REVERSE TABLE:

OUTPUT < PORT, VCI >	VCB	INPUT < PORT, VCI >
ANY UNUSED	VCB 3	8(109-116), 10(103-111), 15(103-106), 17(101-105)

Figure 12

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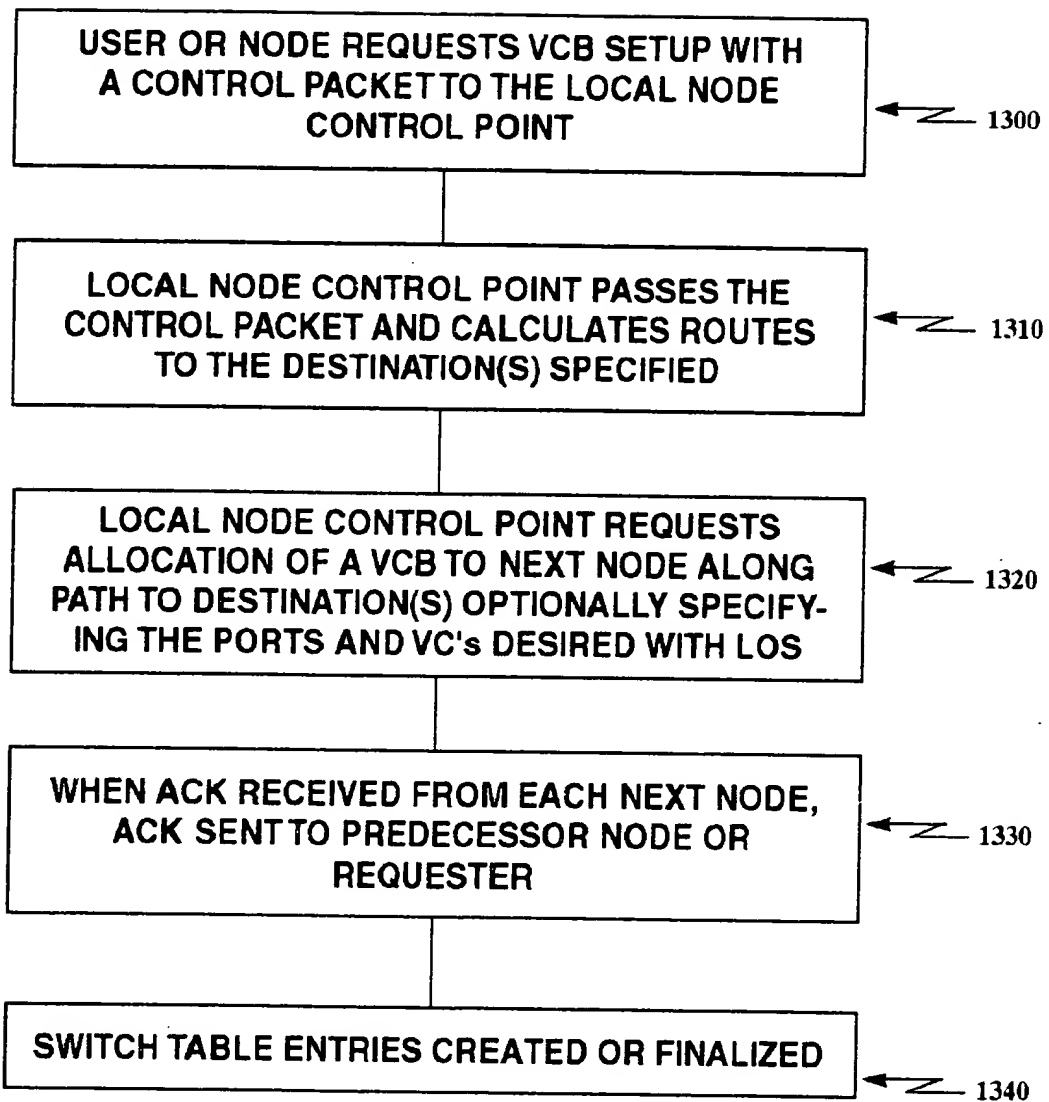


Figure 13

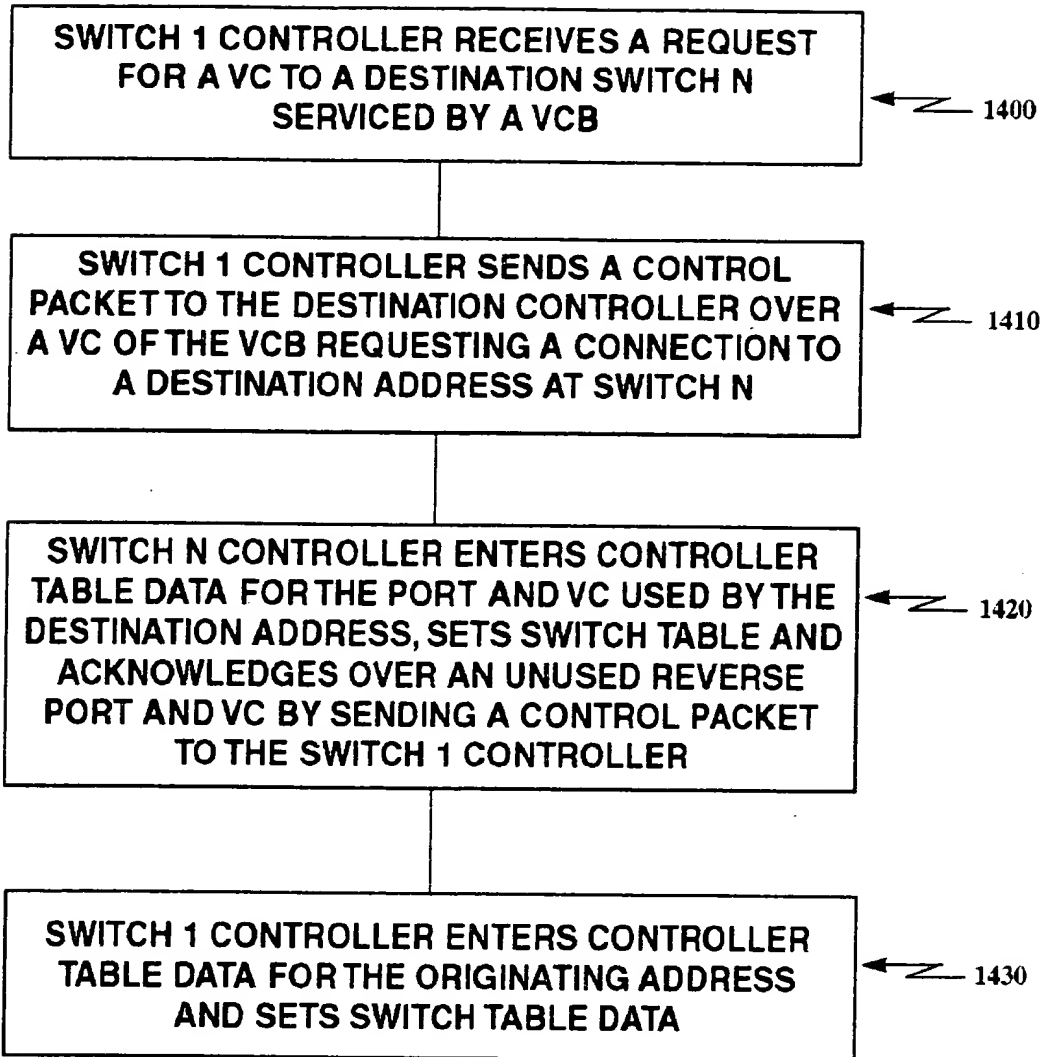


Figure 14

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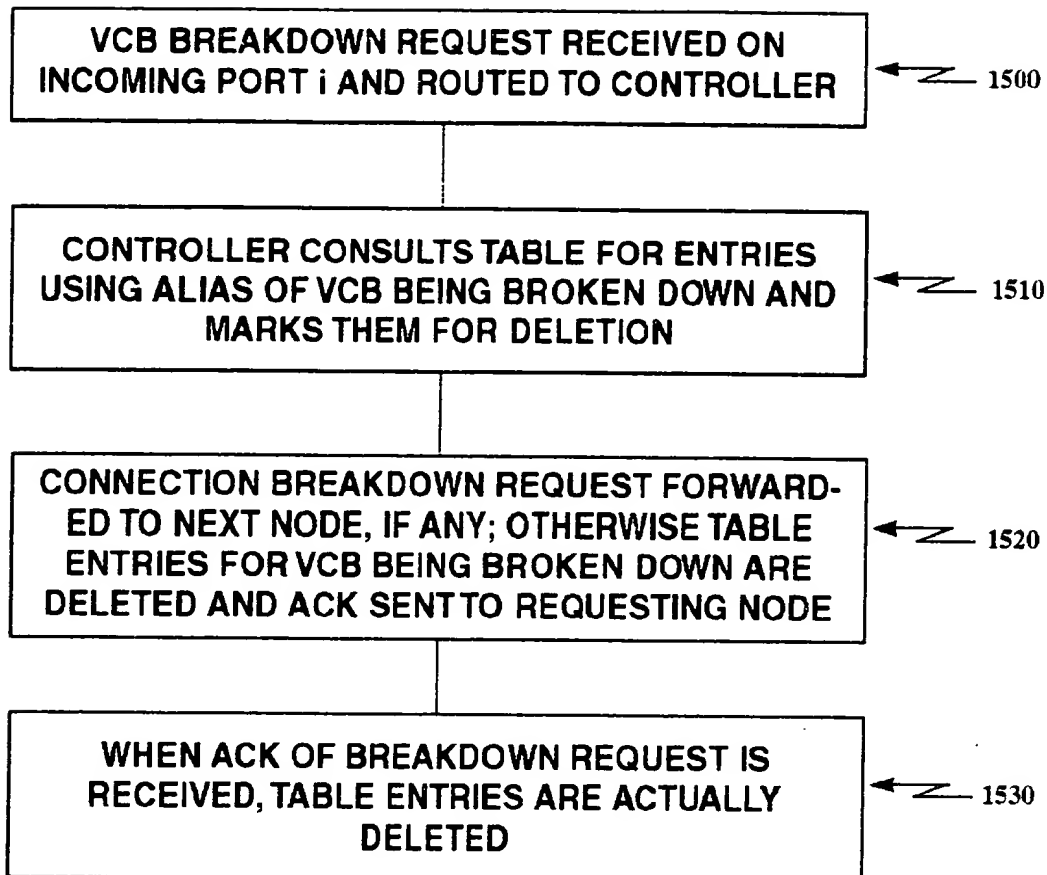


Figure 15

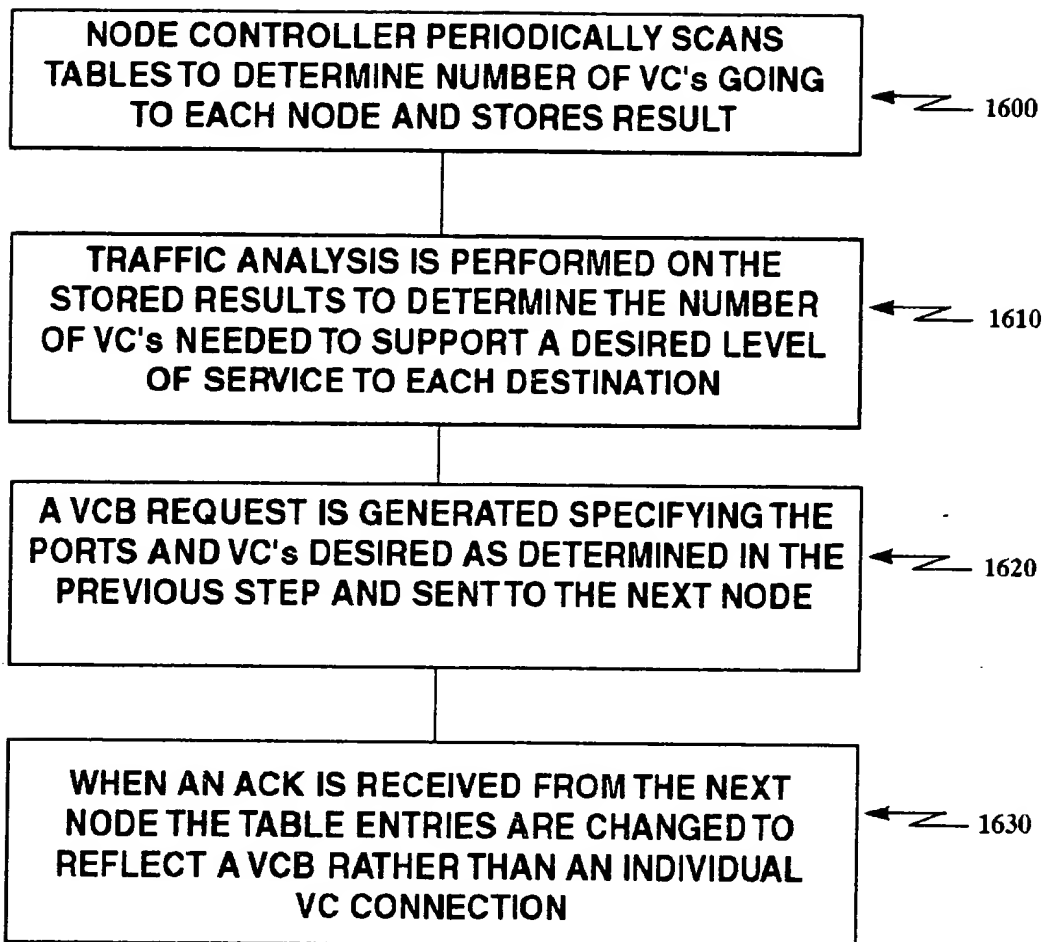


Figure 16

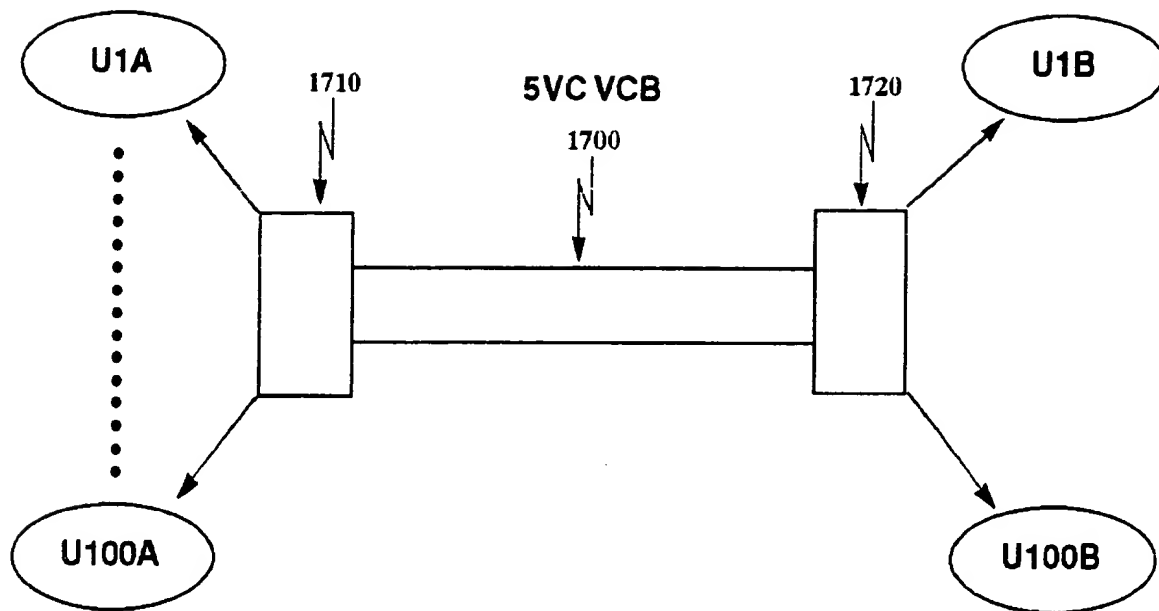


Figure 17

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WHEN A FAST CONNECT (PACKET + REQUEST)
IS RECEIVED AT A NODE, A PORT AND A VC
FROM A VCB ARCH GOING TO THE DESTINATION
NODE IS SELECTED

← 1800

THE FAST CONNECT PACKET/REQUEST IS SENT
OVER THE SELECTED PORT AND VC TO THE
DESTINATION NODE

← 1810

THE FAST CONNECT PACKET/REQUEST IS ROUTED
TO THE DESTINATION NODE TO THE SPECIFIED
DESTINATION ADDRESS

← 1820

AN OPTIONAL FAST CONNECT ACK IS
RETURNED TO THE ORIGINATING ADDRESS IN
THE SAME WAY A FAST CONNECT
PACKET/REQUEST WOULD BE SENT

← 1830

Figure 18

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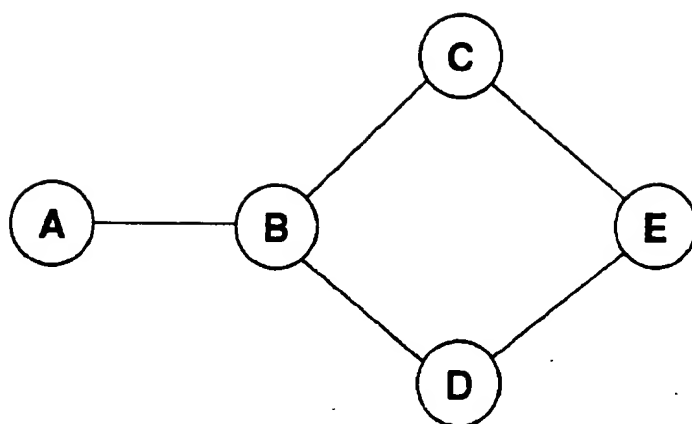


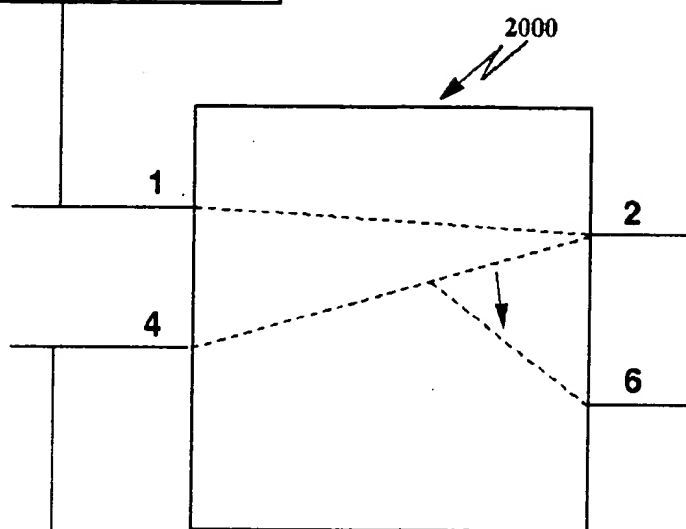
Figure 19

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**PORT 1 SWITCH
TABLE**

VCI _{IN}	PORT	VCI _{OUT}
⋮		
120	2	150
⋮		

← 2010



PORTS
UTILIZED BY
SAME VCB

VCI _{IN}	PORT	VCI _{OUT}
⋮		
125	2	150
⋮		

← 2020

Figure 20

INITIAL STATE:

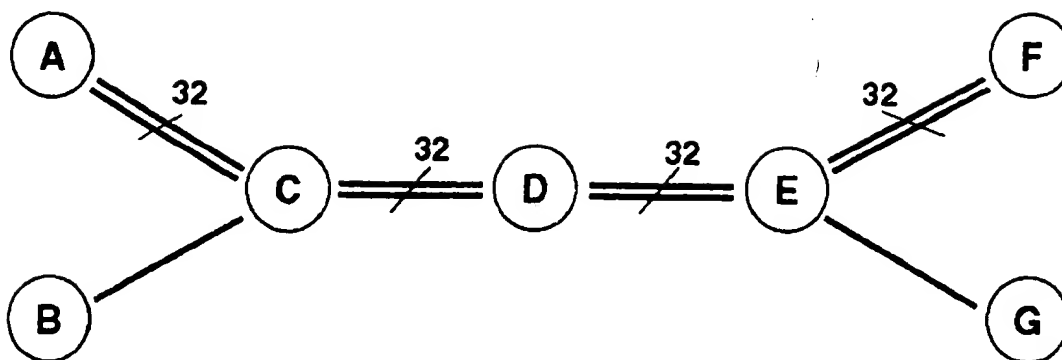


Figure 21A

FINAL STATE:

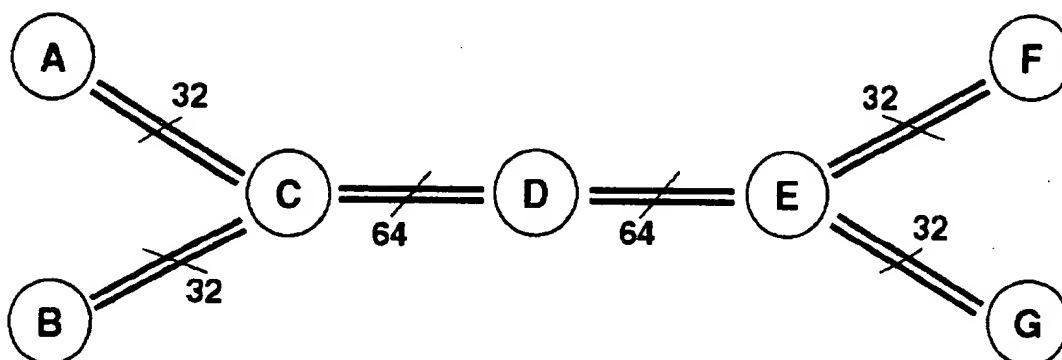


Figure 21B

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